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1. US20020007248A. Comparing reference and test DNA samples, useful in forensic analysis, by determining a likelihood ratio that allele patterns match. GILL, P, et al. C12Q001/68 G06F019/00.

2. US20020009725A. Determining defined source of DNA mixture by detecting allelic identity of DNA, determining probability functions for sample from different persons, using function ratio to determine loci ratios and combining them. GILL, P, et al. C12Q001/68.

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Feb 5, 2003

DERWENT-ACC-NO: 2002-041339

DERWENT-WEEK: 200310

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TITLE: Comparing reference and test DNA samples, useful in forensic analysis, by determining a likelihood ratio that allele patterns match

INVENTOR: GILL, P; BUCKLETON, J S; GILL, P D; WHITAKER, J P

PRIORITY-DATA: 2000GB-0009294 (April 15, 2000)

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PATENT-FAMILY:

| PUB-NO | PUB-DATE | LANGUAGE | PAGES | MAIN-IPC |
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| <input type="checkbox"/> <u>EP 1280933 A2</u> | February 5, 2003 | E | 000 | C12Q001/68 |
| <input type="checkbox"/> <u>WO 200179541 A2</u> | October 25, 2001 | E | 068 | C12Q001/68 |
| <input type="checkbox"/> <u>US 20020007248 A1</u> | January 17, 2002 | | 000 | G06F019/00 |
| <input type="checkbox"/> <u>AU 200148547 A</u> | October 30, 2001 | | 000 | C12Q001/68 |

INT-CL (IPC): C12 Q 1/68; G06 F 19/00

ABSTRACTED-PUB-NO: US20020007248A

BASIC-ABSTRACT:

NOVELTY - A method of comparing reference DNA samples (A) with (part of) a test DNA (B), is new.

DETAILED DESCRIPTION - Alleles are identified for many loci in (B) to produce individual test results (ITR). These are compared with corresponding values (individual reference results, IRR) from an (A) and the probability (P) that IRR could lead by various routes to ITR, including routes where spurious information contributes to ITR, is determined. P for all loci are combined to give an expression for the probability that (B) matches (A), by calculating a likelihood ratio (LR).

INDEPENDENT CLAIMS are also included for the following:

(a) method for calculating an LR for evaluating if (B) comes from a known source, or sources; and

(b) method for investigating acceptable values for one or more variables related to DNA sample analysis.

USE - The method is used for forensic analysis.

ADVANTAGE - The method can be performed by non-experts; permits analysis of complex

samples; allows all information from analysis of DNA samples to be used in determination of results; allows quantification of potential spurious results; can validate approximations made in DNA analysis, and can be applied to results from small DNA samples.

ABSTRACTED-PUB-NO:

WO 200179541A

EQUIVALENT-ABSTRACTS:

NOVELTY - A method of comparing reference DNA samples (A) with (part of) a test DNA (B), is new.

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CHOSEN-DRAWING: Dwg.0/10